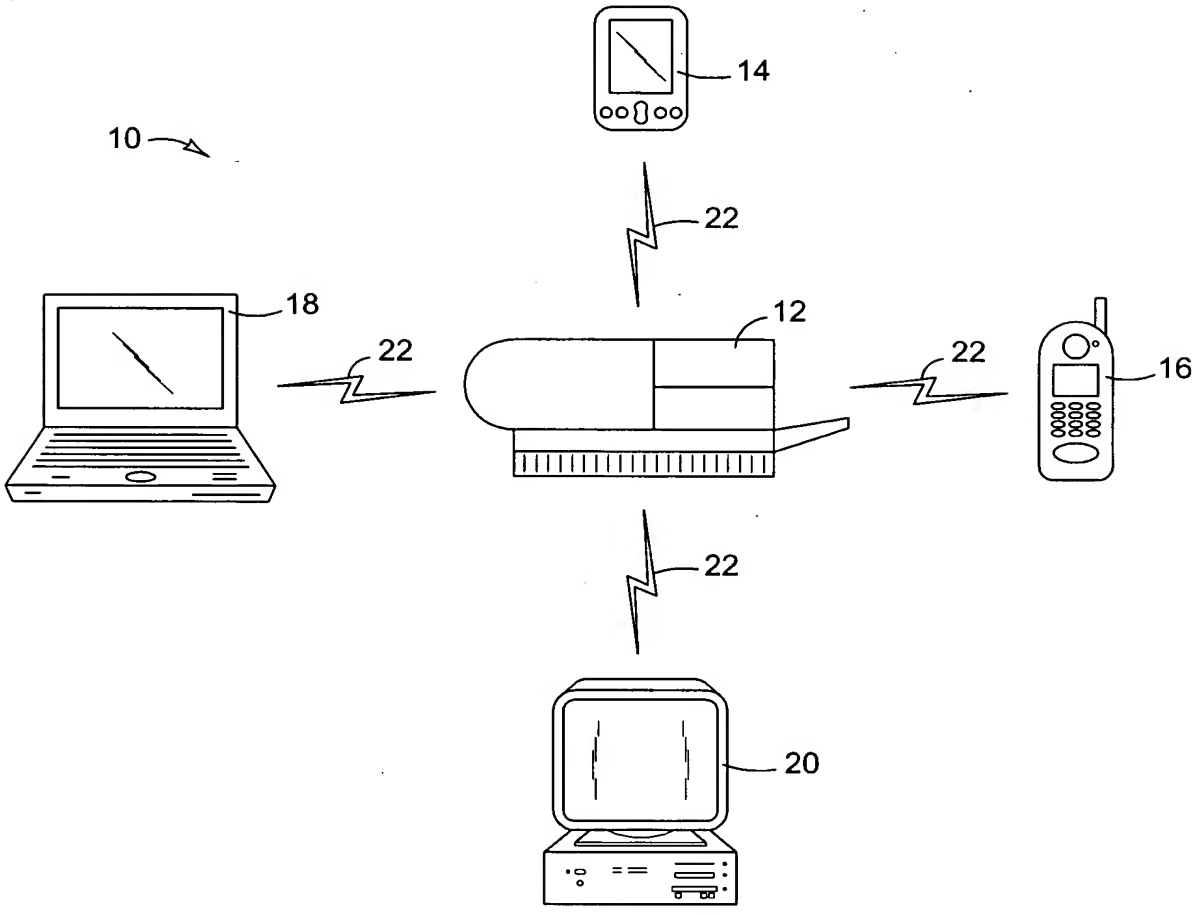

FIG. 1A

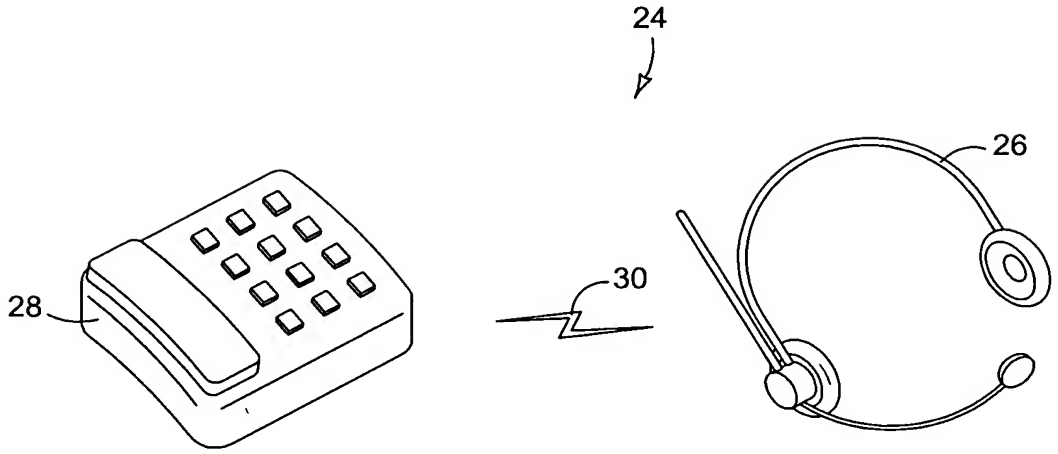

FIG. 1B

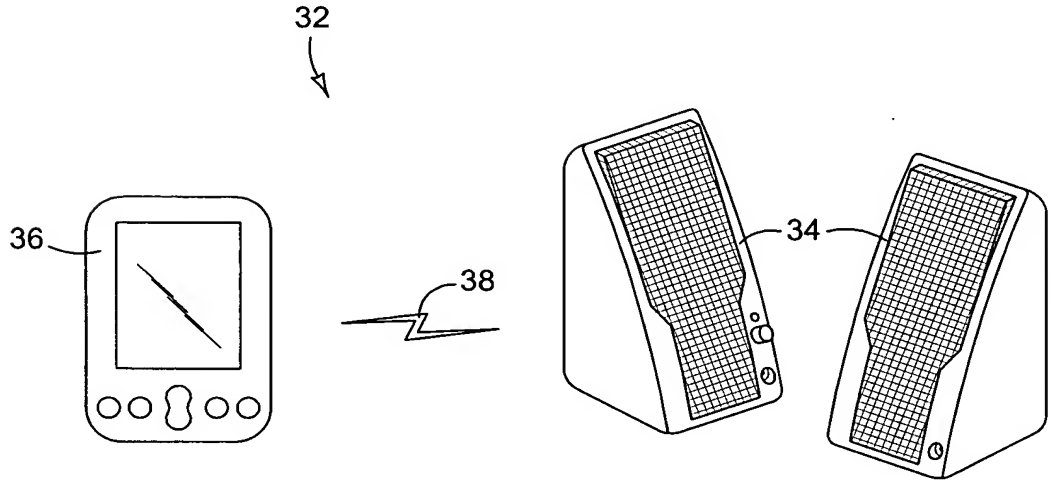

FIG. 1C

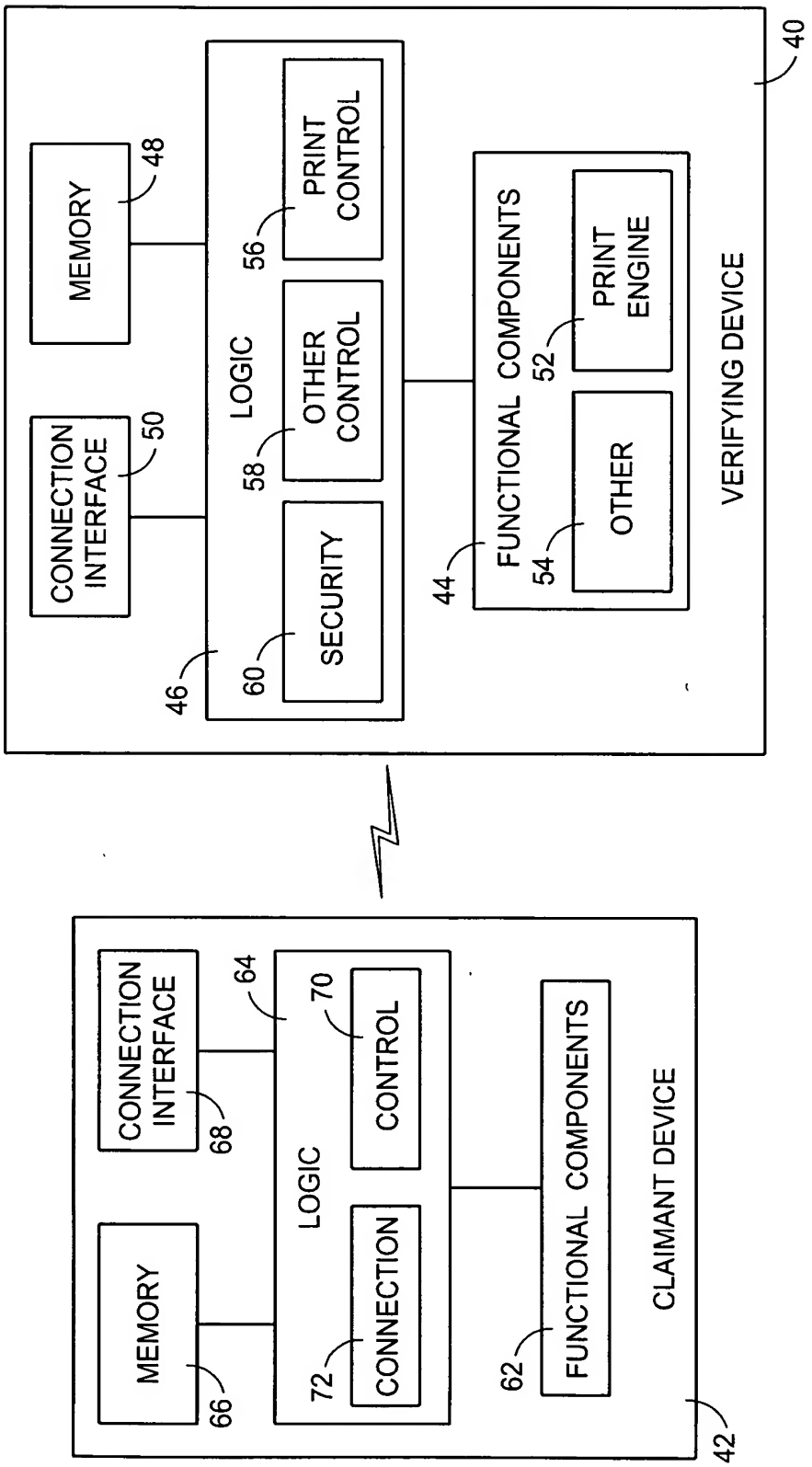
VERIFYING DEVICE
40
MEMORY
48
CONNECTION INTERFACE
50
LOGIC
46
PRINT CONTROL
56
OTHER CONTROL
58
SECURITY
60
FUNCTIONAL COMPONENTS
44
PRINT ENGINE
52
OTHER
54
CLAIMANT DEVICE
42
MEMORY
66
CONNECTION INTERFACE
68
64
LOGIC
CONTROL
70
CONNECTION
72
FUNCTIONAL COMPONENTS
62

FIG. 2

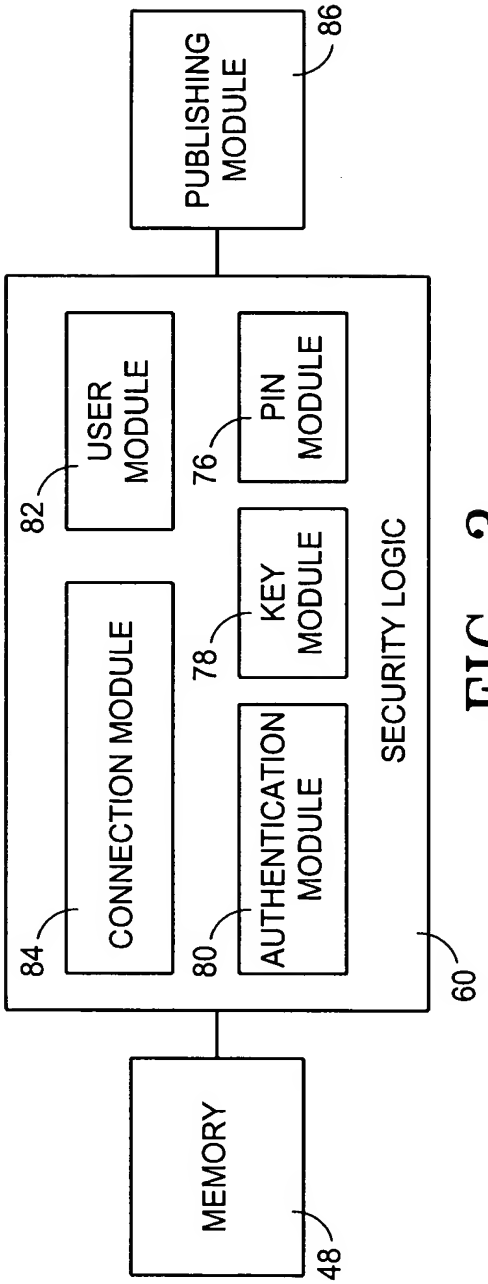
PUBLISHING MODULE
86
SECURITY LOGIC
60
USER MODULE
82
PIN MODULE
76
CONNECTION MODULE
84
KEY MODULE
78
AUTHENTICATION MODULE
80
MEMORY
48

FIG. 3

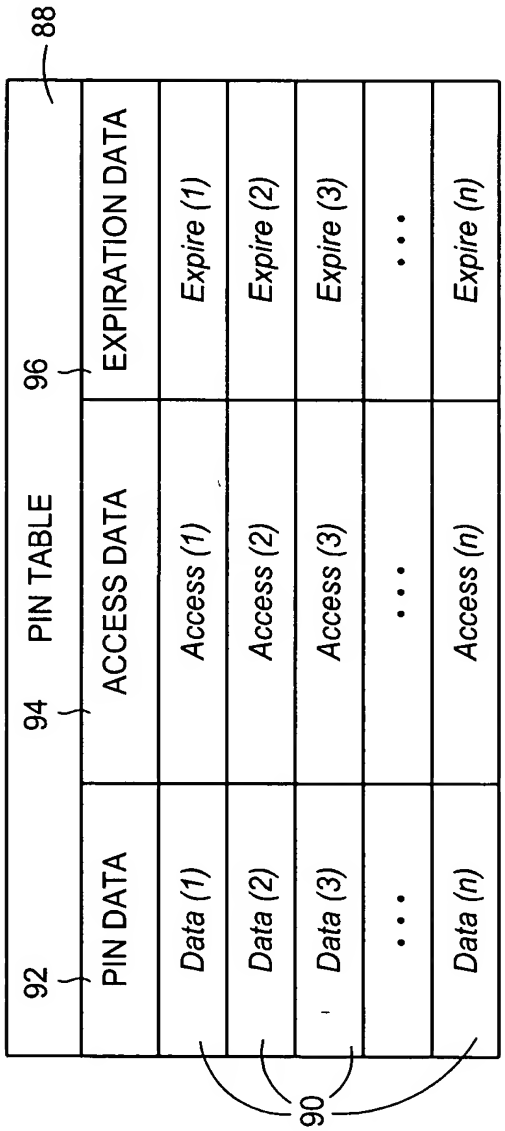
88
PIN TABLE
92
94
96
PIN DATA
ACCESS DATA
EXPIRATION DATA
Data (1)
Access (1)
Expire (1)
Data (2)
Access (2)
Expire (2)
Data (3)
Access (3)
Expire (3)
Data (n)
Access (n)
Expire (n)
90

FIG. 4

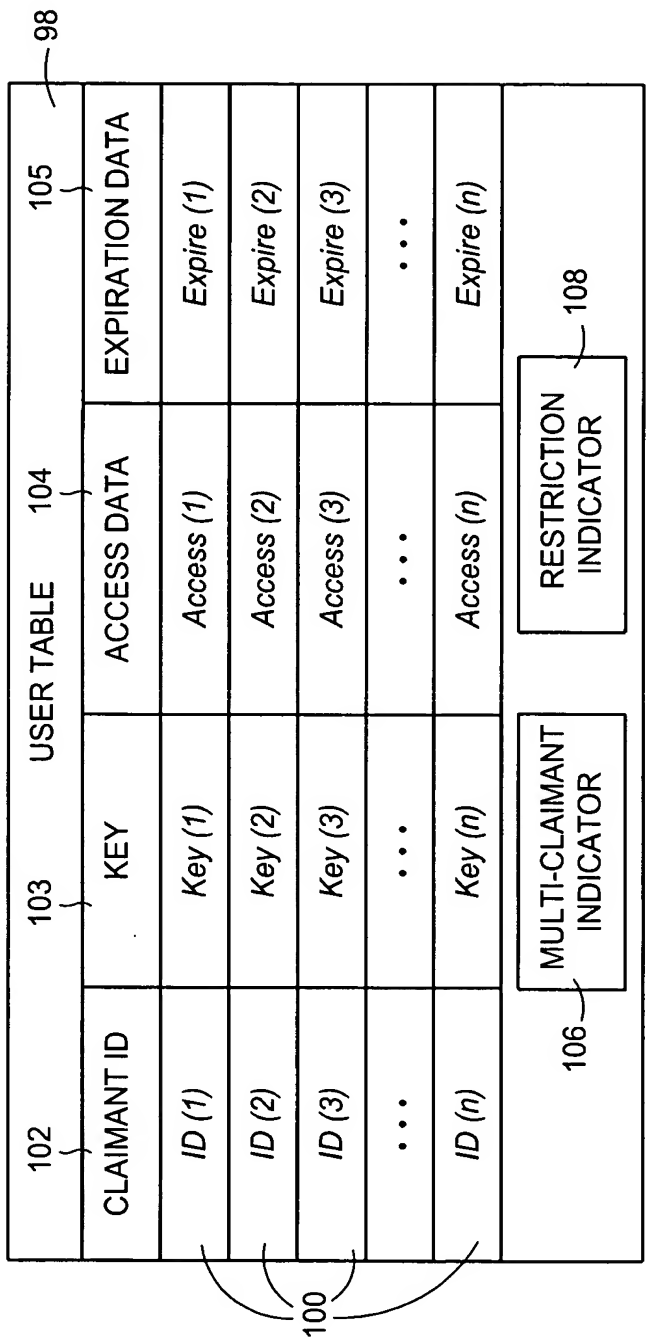

FIG. 5

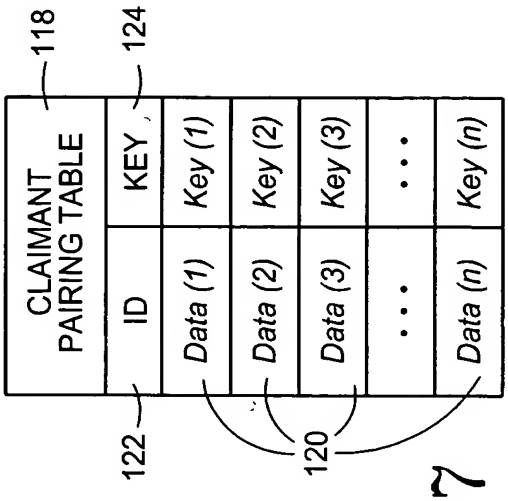

FIG. 7

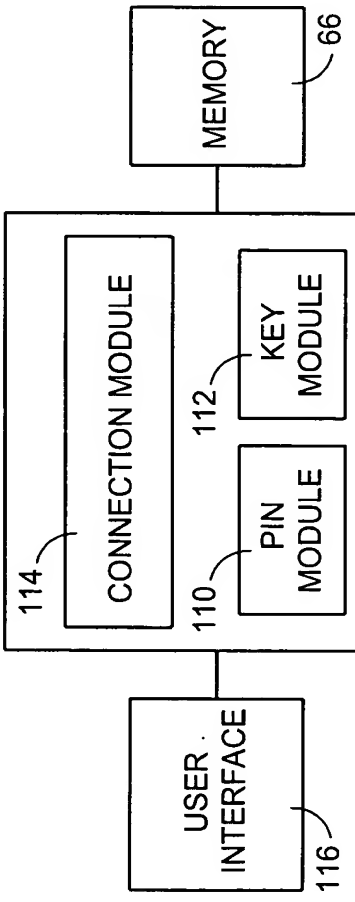

FIG. 6

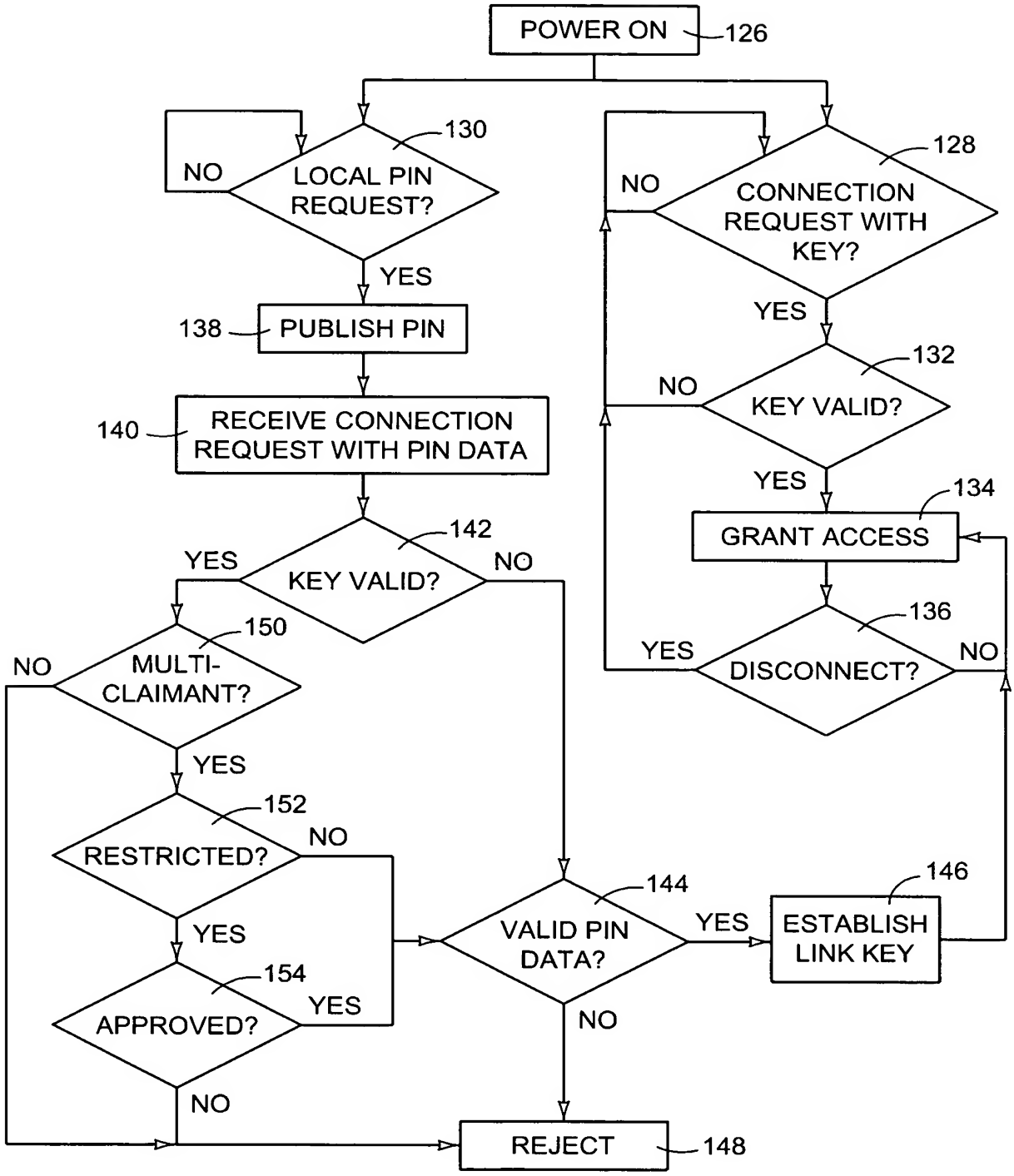
POWER ON
126
130
NO
LOCAL PIN REQUEST?
YES
138
PUBLISH PIN
140
RECEIVE CONNECTION REQUEST WITH PIN DATA
142
YES
KEY VALID?
NO
150
NO
MULTI-CLAIMANT?
YES
152
RESTRICTED?
NO
YES
154
APPROVED?
YES
NO
NO
REJECT
148
144
VALID PIN DATA?
YES
NO
146
ESTABLISH LINK KEY
128
NO
CONNECTION REQUEST WITH KEY?
YES
132
NO
KEY VALID?
YES
134
GRANT ACCESS
136
YES
DISCONNECT?
NO

FIG. 8